

Scaled data based on original data using  
LM-79-2019 Approved Method: Electrical and Photometric Measurements of Solid-  
State Lighting Products

Test Report Prepared for

Cooper Lighting Solutions

Brand: HALO

Report Number: P640452

Luminaire Tested: ML5609LSVWFLD2W1E - 593WB - 900LM - 3000K

Issue Date: 2/17/2023

**Test Information**

Test Method: LM-79-2019  
Report Number: P640452  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-2212-866-97)  
Test Lab: COOPER LIGHTING SOLUTIONS  
Issue Date: 2/17/2023  
Manufacturer: COOPER LIGHTING SOLUTIONS  
Product Line: HALO  
Catalog Number: ML5609LSVWFLD2W1E - 593WB - 900LM - 3000K  
Description: ML56 RR, MILKY OPTIC, 5" WHITE BAFFLE TRIM  
Light Source: (1) D2W SELECTABLE LUMEN LED 90CRI / 3000K CCT  
Ballast/Driver: -

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 1044.2 lumens  
Efficiency: N/A  
Efficacy: 88.5 lumens/watt  
Spacing Criteria (0/90/45): 1.16 / 1.16 / 1.14  
Luminous Opening: Circular (Dia: 0.42' x H: 0')  
CIE Type: Direct

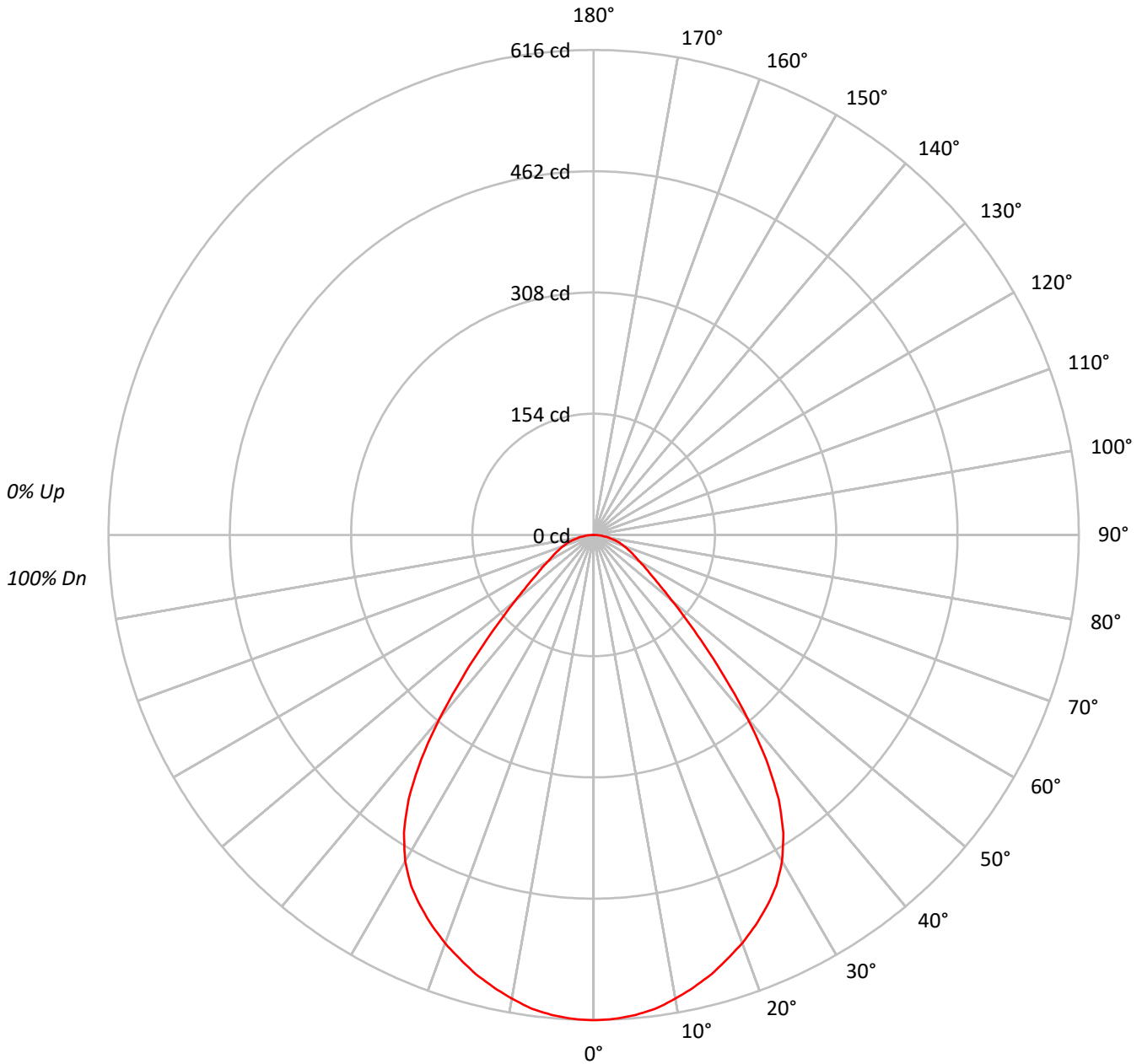
Input Watts (W): 11.8  
Input Voltage (V): NR  
Input Current (A<sub>in</sub>): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



TEST NUMBER: P640452

CATALOG NUMBER: ML5609LSVWFLD2W1E - 593WB - 900LM - 3000K

### Luminous Intensity Polar Plot





TEST NUMBER: P640452

CATALOG NUMBER: ML5609LSVWFLD2W1E - 593WB - 900LM - 3000K

**COEFFICIENT OF UTILIZATION - ZONAL CAVITY METHOD:**

RF	20					20					20					20					20					
RC	80					70					50					30					10					0
RW	70	50	30	10	70	50	30	10	50	30	10	50	30	10	50	30	10	50	30	10	50	30	10	0		
RCR																										
0	119	119	119	119	116	116	116	116	111	111	111	106	106	106	102	102	102	100								
1	111	107	104	101	109	105	102	99	101	99	96	97	95	93	94	92	91	89								
2	103	97	91	87	101	95	90	86	92	87	84	88	85	82	86	83	80	78								
3	96	88	81	76	94	86	80	75	83	78	74	81	76	73	78	75	71	69								
4	90	80	72	67	87	78	72	66	76	70	66	74	69	65	72	67	64	62								
5	84	73	65	60	82	72	65	59	70	63	59	68	62	58	66	61	58	56								
6	78	67	59	54	76	66	59	53	64	58	53	63	57	53	61	56	52	50								
7	73	61	54	49	72	61	54	48	59	53	48	58	52	48	57	51	48	46								
8	69	57	49	44	67	56	49	44	55	49	44	54	48	44	53	47	43	42								
9	65	53	45	41	63	52	45	41	51	45	40	50	44	40	49	44	40	38								
10	61	49	42	37	60	49	42	37	48	41	37	47	41	37	46	41	37	35								

**AVERAGE LUMINANCE (cd/sqm):**

	0°
0°	48659
5°	48504
10°	47943
15°	47205
20°	46355
25°	45336
30°	43617
35°	39463
40°	31317
45°	22261
50°	15879
55°	12304
60°	10547
65°	9863
70°	9463
75°	9211
80°	8819
85°	7789

**MAXIMUM LUMINANCE 45°-90°:**

Horizontal Angle: 0°  
 Vertical Angle: 45°  
 Luminance: 22261 cd/sqm



TEST NUMBER: P640452

CATALOG NUMBER: ML5609LSVWFLD2W1E - 593WB - 900LM - 3000K

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	58.0	5.6
10°-20°	162.7	15.6
20°-30°	239.1	22.9
30°-40°	250.5	24.0
40°-50°	157.6	15.1
50°-60°	82.9	7.9
60°-70°	52.5	5.0
70°-80°	31.6	3.0
80°-90°	9.4	0.9
90°-100°	0.0	0.0
100°-110°	0.0	0.0
110°-120°	0.0	0.0
120°-130°	0.0	0.0
130°-140°	0.0	0.0
140°-150°	0.0	0.0
150°-160°	0.0	0.0
160°-170°	0.0	0.0
170°-180°	0.0	0.0
0°-30°	459.8	44.0
0°-40°	710.3	68.0
0°-60°	950.8	91.1
0°-90°	1044.2	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1044.2	100.0

**CANDELA DISTRIBUTION:**

	0°	Flux
0°	616	
5°	612	58
15°	578	163
25°	520	239
35°	410	251
45°	199	158
55°	89	83
65°	53	53
75°	30	32
85°	9	9
90°	0	



TEST NUMBER: P640452

CATALOG NUMBER: ML5609LSVWFLD2W1E - 593WB - 900LM - 3000K

**CANDELA DISTRIBUTION (FULL):**

	0°
0°	616.4
2.5°	615.3
5°	612.1
7.5°	606.7
10°	598.1
12.5°	588.4
15°	577.6
17.5°	564.7
20°	551.8
22.5°	536.7
25°	520.5
27.5°	502.2
30°	478.5
32.5°	448.3
35°	409.5
37.5°	359.9
40°	303.9
42.5°	247.9
45°	199.4
47.5°	159.5
50°	129.3
52.5°	106.7
55°	89.4
57.5°	77.6
60°	66.8
62.5°	59.3
65°	52.8
67.5°	46.3
70°	41.0
72.5°	35.6
75°	30.2
77.5°	23.7
80°	19.4
82.5°	12.9
85°	8.6
87.5°	3.2
90°	0.0

Signify Classified - Internal  
Cooper Lighting Solutions Photometric Lab  
1121 Highway 74 South  
Peachtree City, GA 30269

Scaled Data Report



Report Generated By 670245859 / DESKTOP-T8S5UU9

Signify Classified - Internal  
Cooper Lighting Solutions Photometric Lab  
1121 Highway 74 South  
Peachtree City, GA 30269

Scaled Data Report





Signify Classified - Internal  
Cooper Lighting Solutions Photometric Lab  
1121 Highway 74 South  
Peachtree City, GA 30269

Scaled Data Report



— 0°-180°

Signify Classified - Internal  
Cooper Lighting Solutions Photometric Lab  
1121 Highway 74 South  
Peachtree City, GA 30269

Scaled Data Report



Signify Classified - Internal  
Cooper Lighting Solutions Photometric Lab  
1121 Highway 74 South  
Peachtree City, GA 30269

Scaled Data Report



Signify Classified - Internal  
Cooper Lighting Solutions Photometric Lab  
1121 Highway 74 South  
Peachtree City, GA 30269

Scaled Data Report



(END OF REPORT)